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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/527,208

11/07/2005

Peter Andrich

HKH-15PCT

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40570 7590 09/10/2009  
FRIEDRICH KUEFFNER  
317 MADISON AVENUE, SUITE 910  
NEW YORK, NY 10017

EXAMINER

WOOD, ELLEN S

ART UNIT

PAPER NUMBER

1794

MAIL DATE

DELIVERY MODE

09/10/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/527,208	<b>Applicant(s)</b> ANDRICH ET AL.	
	<b>Examiner</b> ELLEN S. WOOD	<b>Art Unit</b> 1794	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 06 August 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) 11-25 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08/06/2009 has been entered.

### ***Claim Objections***

2. Claims 1-10 are objected to because of the following informalities: Beverage is misspelled in the second line. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1 and 5-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Darras et al. (US 2002/0176947, hereinafter "Darras").

In regards to claim 1, Darras discloses containers, such as bottles and flasks [0001]. Thus, a beverage container. The container is formed from a polymer material, such as a polyolefin or a polyester [0023]. The polymer material has constituents that can migrate into the interior of the container, thus a internal coating is used to prevent the migration [0024]. The internal coating is applied by plasma deposition [0026]. The polymer material is a thermoplastic material that is already molded [0016]. Darras discloses that without the internal coating the polymer material is left in contact with the liquid and does not offer any protection against the disadvantages incurred by this contact: possibility of certain constituents migrating from the polymer into the liquid, possibility of a chemical reaction between the polymer and liquid, acetaldehyde being transferred into the liquid, etc., all factors which are likely to give rise to organoleptic problems [0009]. Thus, the internal coating controls the migration of constituents into the liquid to prevent harmful constituents from entering the contents of the container.

In regards to claim 5, Darras discloses that the surface coating is applied as a plasma coating [0040].

In regards to claim 6, Darras discloses that the surface coating may be a network of silicon stabilized by oxygen (SiOx) [0020].

In regards to claim 7, Darras discloses that the container may be in the shape of a bottle (abstract).

In regards to claims 8 and 10, Darras discloses that the polymer material consists of a single-layer material of PET [0023].

In regards to claim 9, Darras discloses that the PET container wall is made of polymer material in which has been pre-treated to allow a stronger adhesion of the plasma material and allow the deformation of the container without the two layers coming unstuck [0078].

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Darras et al. (US 2002/0176947, hereinafter "Darras") in view of Namamachi (US 6,355,738).

Darras discloses the invention essentially as claimed, with the exception of the thermoplastic material consisting of a recycled material, the acetaldehyde content, and the plastic containing a catalyst as one of its constituents.

Nakamachi discloses a polyester that is widely used for containers such as bottles that has excellent gas barrier properties, transparency, and heat resistance (col. 1 lines 5-10). The polyester may have recycled PET blended within (col. 5 lines 46-47). The acetaldehyde content is 20 ppm (col. 5 lines 38-40). The plastic contains a catalyst that could be considered a constituent (col. 7 lines 33-40).

It would be obvious to one of ordinary skill in the art to use the polyester as disclosed by Nakamachi in the formation of the bottle of Darras. The addition of the plasma coating disclosed by Darras on the polyester bottle would considerably reduce the amount of acetaldehyde being released into the container contents [0024], thus allowing for enhanced barrier protection and extended shelf life [0009].

### ***Response to Arguments***

7. Applicant's arguments filed 06/08/2009 have been fully considered but they are not persuasive.

8. The 35 U.S.C 112, second paragraph has been withdrawn based on the amendment filed.

9. The applicant argues that it is not recognized in Darras that such a barrier property makes it possible to use container materials which without the appropriate barrier coating are not suitable for packaging beverages.

In response, claim 1 states "container configured to be filled with a beverage, which has a wall made of a thermoplastic material". Darras discloses that it is known that if the polymer material (PET) is left in contact with the liquid and does not offer any protection against the disadvantages incurred by this contact it is a possibility that certain constituents migrate from the polymer into the liquid, the possibility of a chemical reaction between the polymer and liquid, acetaldehyde being transferred into the liquid, etc., all factors which are likely to give rise to organoleptic problems [0009]. Thus,

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Darras does draw the conclusion that unsuitable materials are to be used with the barrier layer to form a beverage packaging suitable for consumers.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ELLEN S. WOOD whose telephone number is (571)270-3450. The examiner can normally be reached on M-F 730-5 with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on (571)272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Rena L. Dye/  
Supervisory Patent Examiner, Art Unit 1794